CBP GIS Team/Land Data Team
2014 Work Plan
STAR Meeting – 1/23/14

1) **Geospatial Data Enterprise** – develop and implement procedures, data storage organization and governance to support CBP desktop and server GIS operations
    a. Map, Data, and Metadata Tracking
        i. CBP Enterprise Geodatabase – continue to populate the enterprise geodatabase with "final" versions of CBP geospatial data products
        ii. CBP Map Library – continue to populate the CBP map library with new static maps for indicators and other products requested by GITs and work groups
        iii. CBP Metadata Catalog – continue to update and populate the CBP Metadata Catalog with entries for new data sets, map services, and related systems. Strive to integrate metadata catalog with external catalog systems (Environmental Dataset Gateway, data.gov).
        iv. CBP Map Service Tracking – continue to populate map service tracking system for www.chesapeakebay.net and stat.chesapeakebay.net websites. Strive to integrate and register map services on federal geoplatform(s).
        v. CBP Geospatial Data Distribution – update the organization and content of CBP's geospatial data distribution via archive.chesapeakebay.net
    b. Geospatial Roadmap – work with CBP contractor (Booz Allen Hamilton) on development of a future target architecture for geospatial hardware, software and data storage. Coordinate with the CBP Data Center on implementation of cloud roadmap.
    c. Geospatial Workflow Documentation – work with CBP contractor (Innovate) on documentation and integration of multiple workflows that support CBP GITs and workgroups, websites, and internal and external tracking systems.
    d. Data Hub Redesign – collaborate with CBP Data Center on development of updated data hub and for distribution of geospatial data and services.
2) **Decision Support Tools** – identify, document and support the development of decision support tools used by the Partnership
    a. Federal Assessment and Scenario Tool (FAST) – coordinate with modeling team (and contractors) on the development of a geographic interface and overlay too for FAST.
    b. Federal Facilities Editing Tool – coordinate with the Land Use Workgroup and the Facilities Team on the development of an online editing tool for adjustments to federal boundaries and land use data.
    c. Public Access Mapping Tool – coordinate with the National Park Service on updating the web-based tool for input of potential public access sites.
    d. ChesapeakeStat –
        i. Tracking and Accountability Business Case - pending outcome of discovery process", coordinate the development of geographic content for new 2014 Chesapeake Watershed Agreement component of ChesapeakeStat
        ii. Collaborative Decision Making Business Case – coordinate pilot Chesapeake Landscape Modeler project with Esri based on region-specific implementation of Esri-'s Landscape Modeler (http://marketplace.arcgis.com/listing.html?id=58e5b2fe5aaa4aa782175c334734e0a9)
        iii. TMDL Tracker – update content of TMDL tracker application as necessary

iv. JavaScript Migration – convert web mapping technology for www.chesapeakebay.net and stat.chesapeakebay.net from Flash to JavaScript

3) **Geospatial Data Analysis and Support** – Provide geospatial analysis and support to the GITs and Workgroups
    a. Tracking Healthy Watersheds Support – continue to support GIT 4 on data analysis and management needs and mapping needs to support the Tracking Healthy Watersheds outcome of the new Watershed Agreement
    b. Protected Lands – coordinate the 2014 update of the CBP protected lands/federal lands database
    c. Cross Goal Collaboration Projects - support the identification and implementation of inter GIT and/or multi-GIT collaboration projects
    d. Indicators Support – provide geospatial support to Indicators Workgroup
        i. Indicator Mapping Support - mapping updates and revisions to geospatial indicators
        ii. Indicator Development Support – collaborate with CBP data managers and analysts on development of communication products for new indicators (e.g. – standards attainment)
    e. Modeling Support – provide geospatial support to CBP Modeling team on segmentation revisions and data aggregations to model segments as necessary
4) **Land Change Modeling and Land Cover Monitoring** (select activities) – Enhance the Chesapeake Bay Land Change Model (CBLCM) to simulate alternative future development scenarios
    a. Land Use Work Group Coordination – serve in Coordinator role for Land Use Workgroup, including inventorying and assembling local datasets and identifying gaps
    b. Floodplains Mapping – develop methods and prototype the mapping of floodplains in the Chesapeake Bay watershed from LIDAR
    c. Watershed Model Data Development/Updates – update MS4, CSO, extractive, and impervious datasets, sewer service areas, septic areas
    d. Alternative Urban Futures – simulate future urban scenarios using CBLCM (2010- 2100)
    e. Watershed Model Loading Rates – coordinate the development of new loading rates for LU/LC classes
    f. Dasymetric Mapping – develop total population and housing maps for mid-Atlantic based on dasymetric mapping techniques
    g. Infill/Redevelopment – assess recent rates of infill/redevelopment for the Chesapeake Bay Watershed
    h. CBLCM Code – publish code for CBLCM
    i. Land Cover Data Update – update Chesapeake Bay Land Cover Data to 2010.11 using NLCD and CCAP